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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,123	12/09/2003	Tatsuo Sengoku	009683-488	4345
21839	7590 01/11/2005		EXAM	INER
BURNS DO	ANE SWECKER & N	MATHIS L L P	PRUCHNIC,	STANLEY J
	IA, VA 22313-1404		ART UNIT	PAPER NUMBER
	•		2859	

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

TECHNOLOGY CENTER 2800)

•		Application	n No	Applicant(s)	
		10/730,12		SENGOKU ET AL	
	Office Action Summary	Examin r	<u> </u>	Art Unit	
	•		Pruchnic, Jr.	2859	
 	The MAILING DATE of this communication a	1		l I	ldress
Period fo	or Reply	•		•	
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a representation of the period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the maded patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no evereply within the statuod will apply and witte, cause the appl	ent, however, may a reply be tin atory minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered time the mailing date of this c	ly. ommunication.
Status					
1)⊠	Responsive to communication(s) filed on 13	B December 20	00 4 .		
2a) <u></u> ☐	This action is FINAL . 2b)⊠ T	his action is n	on-final.		
3)	Since this application is in condition for allow		•		e merits is
	closed in accordance with the practice unde	er Ex parte Qu	ayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposit	ion of Claims				
5)□	Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) 4-15 is/are withdraware Claim(s) is/are allowed. Claim(s) 1-3 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	awn from cons		·	
Applicat	ion Papers				
9)[The specification is objected to by the Exam	iner.			
10)⊠	The drawing(s) filed on 09 December 2003 is	s/are: a)⊠ a	ccepted or b) objec	ted to by the Exar	miner.
	Applicant may not request that any objection to t			• •	
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	•	- · ·	•	` '
Priority (under 35 U.S.C. § 119				
a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure See the attached detailed Office action for a l	ents have bee ents have bee rionty docume eau (PCT Rul	n received. n received in Applicat ents have been receive e 17.2(a)).	ion No ed in this National	l Stage
Attachmen					
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail D		
3) 🛛 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date <u>12/9/03(1SHEET)</u>	08)		ate Patent Application (PT	O-152)

Art Unit: 2859

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Election/Restrictions

- 2. Applicant's election without traverse of Group I (Claims 1-3) in the reply filed on 13 December 2004 is acknowledged.
- 3. Claims 4-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 13 December 2004.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Information Disclosure Statement

5. The references listed in the information disclosure statement (IDS) or PTO-1449 submitted by Applicant on 9 December 2003 are acknowledged. The cited references have been considered as indicated by the examiner's initials next to each reference considered.

However the foreign patent(s) and/or document(s) cited by applicant are considered only to the extent they could be understood from the abstract and drawings and Applicant's explanation of relevance in the Specification and partial translation.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebihara *et al.* (U. S. Patent No. 4,237,420, hereinafter **EBIHARA**) in view of JP7/326714 (hereinafter **NISHIGAKI**).

Regarding Claim 1, **EBIHARA** discloses a temperature detection circuit including:

a signal output circuit (22) outputting a first signal (a) having at least one rising or falling portion;

a delay circuit (18) formed of at least one inverter (18) to output a delayed version (f) of said first signal;

a logic circuit (32) receiving said first signal and said delayed version of said first signal;

a pulse width measurement circuit (23) outputting

a signal asserted (Rx) in response to

a signal received (b) from said logic circuit

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having a pulse with a width of no less than a predetermined width corresponding to a temperature desired to be detected; and a latch circuit (26) latching a signal output from said pulse width measurement circuit,

said pulse width measurement circuit having

an integration circuit (capacitor 16; resistor 14) receiving a signal output from said logic circuit and

a Schmitt trigger circuit (**34**) receiving a signal output from said integration circuit,

said Schmitt trigger circuit having a trigger potential set to have a value corresponding to said predetermined width.

EBIHARA as described above, does not explicitly disclose said circuit is a semiconductor integrated circuit as claimed by applicant in Claim 1. **EBIHARA** as described above, does not claim the components located on semiconductor integrated circuits as claimed by Applicant in claims 2-3.

NISHIGAKI discloses components on separate semiconductor integrated circuits, e.g., the buffer circuit (inverter) 50 is located on a CPU in order to detect that chip's internal temperature. Moreover, it is well known in the art of temperature sensing that the pulse width measurement circuit would be affected by temperature changes.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to shift the positions of these components, in order to keep the pulse width measurement circuit away from the hottest areas so it will have more accurate results, and based on the intended use for the temperature dependent oscillator to measure the temperature of the CPU chip as taught by **NISHIGAKI**.

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Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in a form PTO-892 and not mentioned above disclose related temperature sensing devices and methods of signal detection.
 - LEMMENS (U. S. Patent No. 5,708,375 A)
 - MEHNERT (U. S. Patent No. 4,873,518 A)
 - YIN (U. S. Patent No. 6,695,475 B2)
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stanley J. Pruchnic, Jr., whose telephone number is (571) 272-2248. The examiner can normally be reached on weekdays (Monday through Friday) from 7:30 AM to 4:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached at (571) 272-2245.

The *Official FAX* number for Technology Center 2800 is **(703) 872-9306** for <u>all</u> <u>official</u> communications.

Any inquiry of a general nature or relating to the status of this application or proceeding may be directed to the official USPTO website at http://www.uspto.gov/ or you may call the USPTO Call Center at 800-786-9199 or 703-308-4357. The Technology Center 2800 Customer Service FAX phone number is (703) 872-9317.

The <u>cited U.S.</u> patents and patent application publications are available for download via the Office's PAIR. As an alternate source, <u>all U.S.</u> patents and patent application publications are available on the USPTO web site (<u>www.uspto.gov</u>), from the Office of Public Records and from commercial sources.

Private PAIR provides external customers Internet-based access to patent application status and history information as well as the ability to view the scanned images of each customer's own application file folder(s).

For inquiries relating to Patent e-business products and service applications, you may call the *Patent Electronic Business Center (EBC)* at 703-305-3028 or toll free at 866-217-9197 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. Additional information is available on the Patent EBC Web site at: http://www.uspto.gov/ebc/index.html.

Stanley J. Pruchnic, Jr. 1/10/05

DIEGO F. F. GUTIERREZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

GAIL VERBITSKY

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FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	
ATTORNEY'S DKT NO. 009683-488	APPLICATION NO. Unassigned
APPLICANT Tatsuo SENGOKU et al.	10/730,123
FILING DATE	GROUP 2859

 		U.	S. PATENT DOCUM	ENTS			 .
Examiner Initials	Document Number	Kind Code (if known)	Name of	Patentee or Ap Cited Documen		Issue/Public Date (MM-DD-YY	
			EIGN PATENT DOC	UMENTS			
Examiner Initials	Document Number	Kind Code (if known)	Country	(ay/sus	Date of Publication (MM-DD-YYYY)	Transla Yes	tion No
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EXAMINER: Initial if reference considered whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}Also discuss d in the specification

Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination | SENGOKU ET AL. | Examiner | Art Unit | Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-6,695,475 B2	02-2004	Yin, Rong	374/171
	В	US-5,708,375 A	01-1998	Lemmens, Hubertus G. C.	327/36
	С	US-4,873,518 A	10-1989	Mehnert, Walter	327/31
	D	US-4,237,420 A	12-1980	Ebihara et al.	374/170
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

